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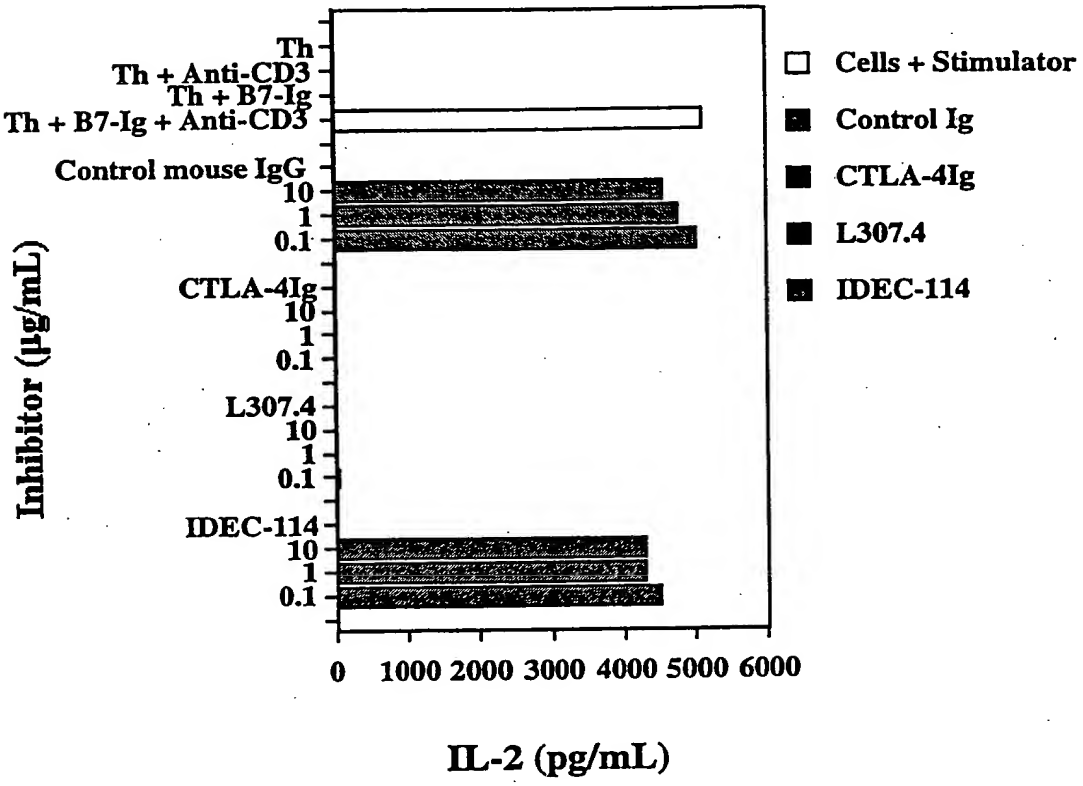
IDEC-114 Does Not Block IL-2 Production Induced by Co-stimulation with Anti-CD3 and B7Ig Coated Latex Microspheres



~~Figure/1: Production of IL-2 in cultures of purified normal human CD4+ lymphocytes when stimulated with~~ sub-optimal amounts of immobilized anti-CD3 antibody and B7-1 (CD80) on latex microbeads. L307.4 is a commercially available murine antibody (B/D Pharmingen) that binds specifically to human CD80 and neutralizes CD28:CD80 functional interactions. CTLA-4Ig is a soluble receptor fusion protein that specifically blocks CD80 and CD86 binding to CD28 receptors on T cells. IDEC-114 is a PRIMATIZED monoclonal antibody that specfiically binds to both soluble and membrane forms of the CD80 antigen but does not recognize CTLA-4 or B7-2 antigens. The ratio of anti-CD3 to B7Ig used in the cultures to ~~stimulate T cells was 1:10 (w/w)~~.

FIG. 11

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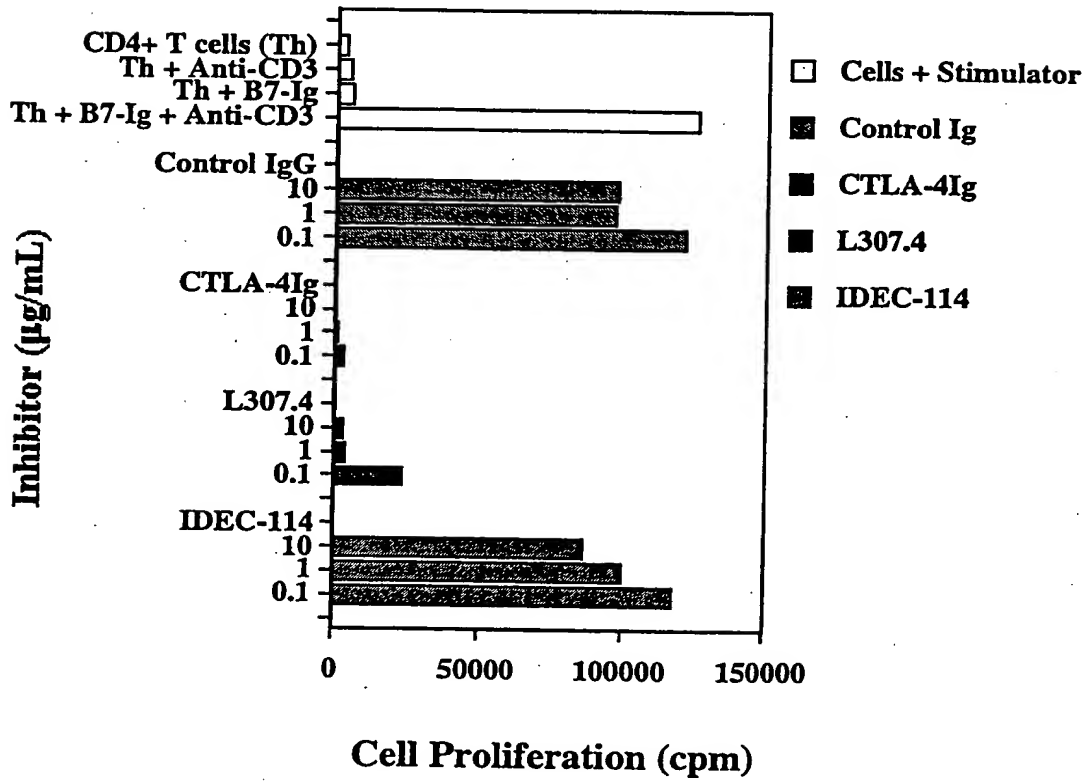

~~Figure 12. Uptake of H3 - Thymidine in cultures of purified normal human CD4+ lymphocytes when~~ stimulated with sub-optimal amounts of immobilized anti-CD3 antibody and B7-1 (~~CD80~~) on latex microbeads. L307.4 is a commercially available murine ~~antibody (B/D~~ Pharmingen) that binds specifically to human CD80 and neutralizes CD28:CD80 ~~functional~~ interactions. CTLA-4Ig is a soluble receptor fusion protein that specifically blocks ~~CD80~~ and CD86 binding to CD28 receptors on T cells. IDEC-114 is a PRIMATIZED ~~monoclonal~~ antibody that specfiically binds to both soluble and membrane forms of the ~~CD80 antigen but does not recognize CTLA-4 or B7-2~~ antigens.

FIG. 12

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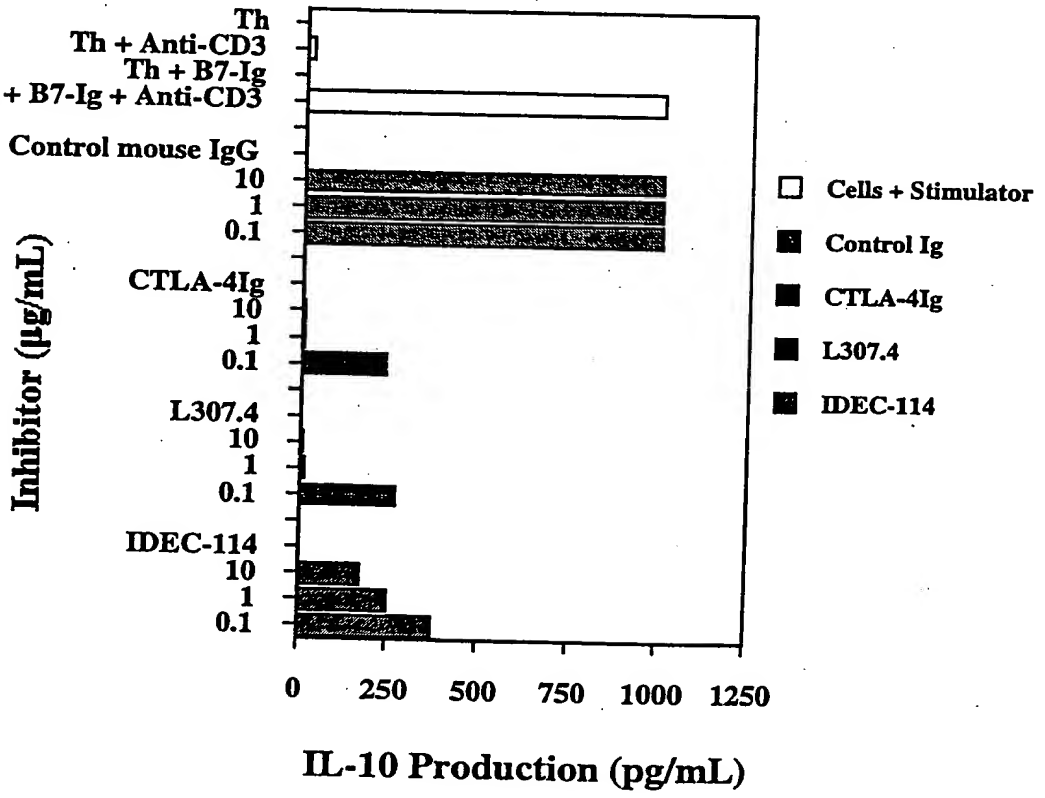
Production of IL-10 by Co-stimulation with Anti-CD3:B7-Ig (1:10) Latex Microspheres isInhibited by CTLA-4Ig, and Anti-CD80 Antibodies L307.4 and IDEC-114



~~Figure13: Production of TH2 cytokine IL-10 in cultures of purified normal human CD4+ lymphocytes when~~ stimulated with sub-optimal amounts of immobilized anti-CD3 ~~antibody and B7-1~~ (CD80) on latex microbeads. ~~Inhibition of IL-10 production~~ by L307.4 anti-CD80 and CTLA-4Ig fusion protein was ~~compared at 0.1, 1, and 10ug/mL~~.

FIG. 13

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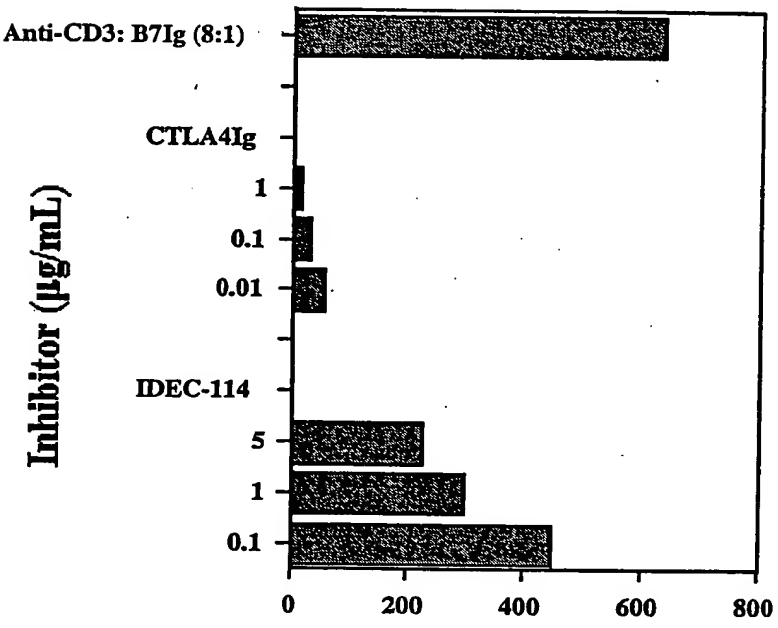
IDEC-114 Blocks IL-2 Production by Purified CD4+ T Cells When Low Bead Densities of B7 are Used as Stimulators



~~Figure 4: Inhibition of IL-2 cytokine production by CTLA-4Ig and IDEC-114 in cultures of purified human~~ CD4+ T cells. T cells were co-stimulated with anti-CD3 ~~and B7Ig-coated latex microbeads with an anti-~~ CD3/B7 ratio (w/w) ~~of 8:1~~. IL-2 was determined by growth and uptake of Thymidine by the IL-2 ~~dependent cell line CTLL-2~~.

FIG. 14